

FIG. 2A

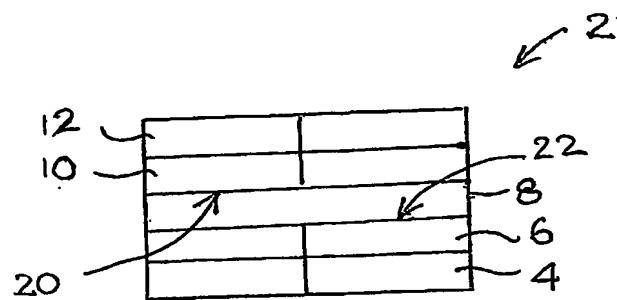


FIG. 2B

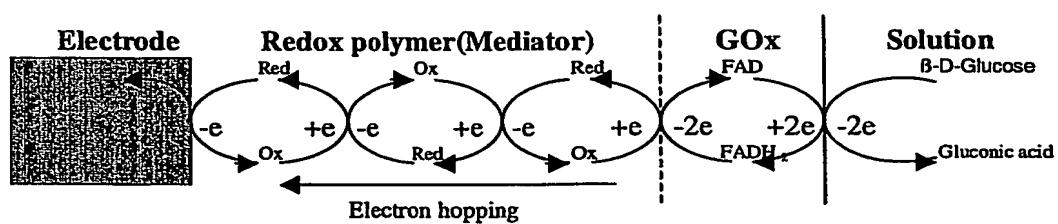
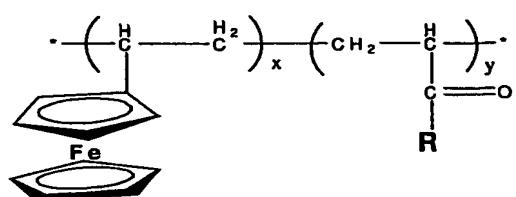
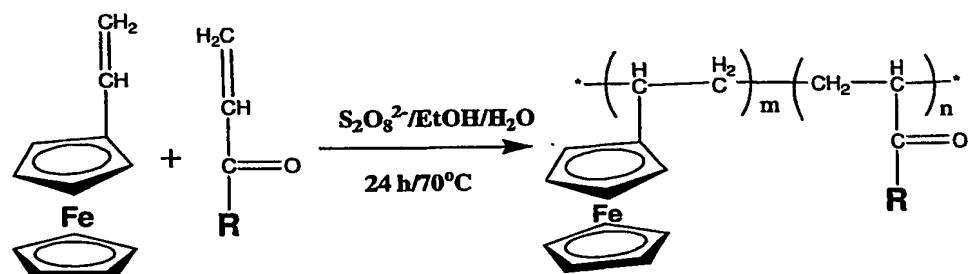


Figure 4. Illustration of redox polymer mediated biosensing process.



R = C_nH_{2n}-NH₂, C_nH_{2n}-COOH, NH-C_nH_{2n}-SO₃H (n = 0 - 8)

Figure 5. Structure of water-soluble and cross-linkable ferrocenyl redox polymer.



$\text{R} = \text{C}_n\text{H}_{2n}-\text{NH}_2, \text{C}_n\text{H}_{2n}-\text{COOH}, \text{NH}-\text{C}_n\text{H}_{2n}-\text{SO}_3\text{H} (n = 0 - 8)$

Figure 6. Polymerization mechanism of the redox polymer

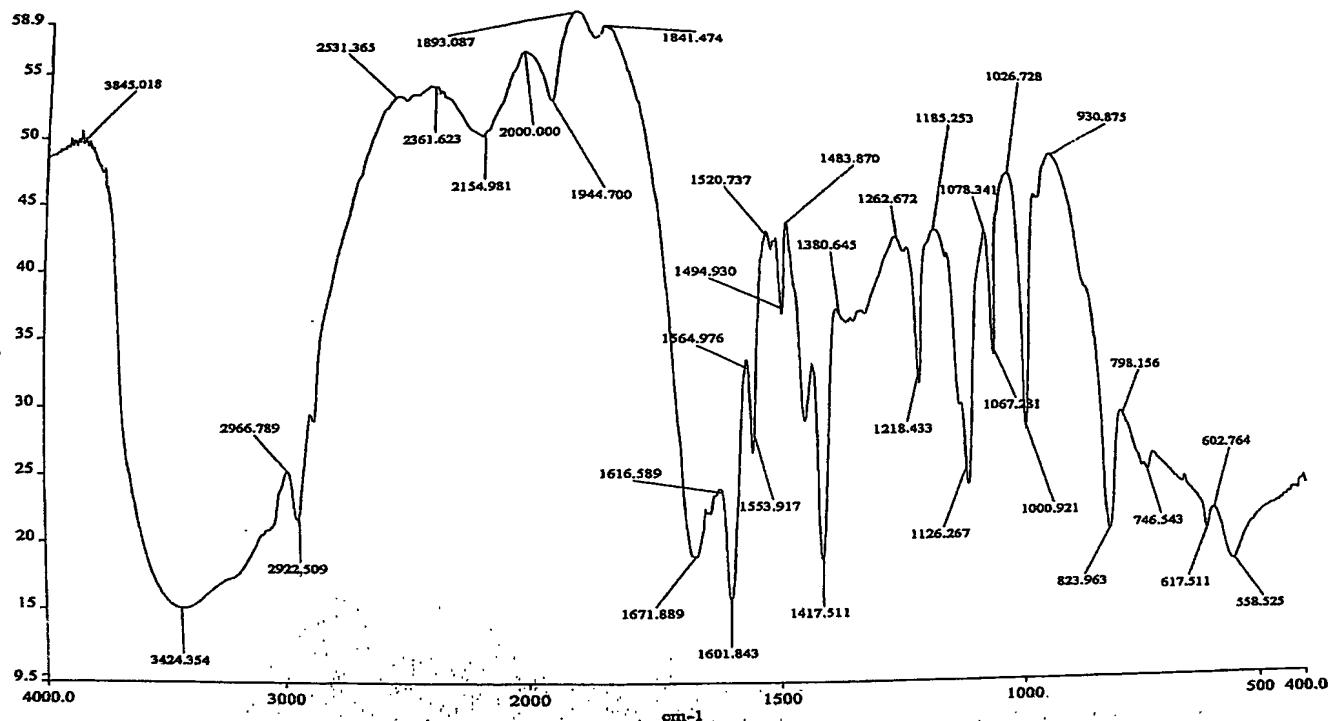


FIGURE 7. FT-IR Spectrum of PAA-VFc and PAAS-VFc redox polymer

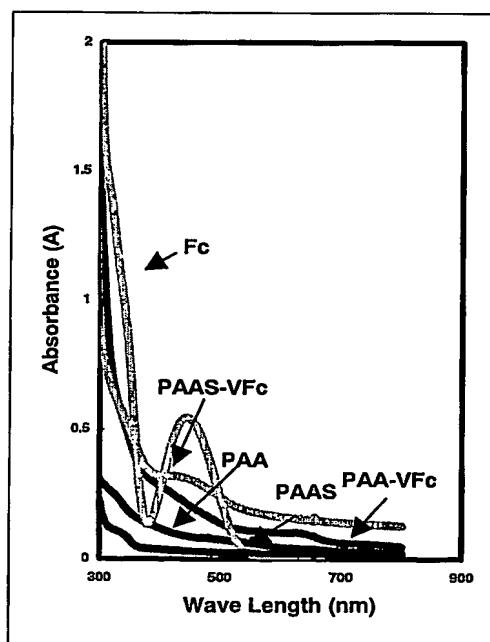


FIGURE 8. UV-visible spectra of Fc, PAA, PAAS and their VFc co-polymers.

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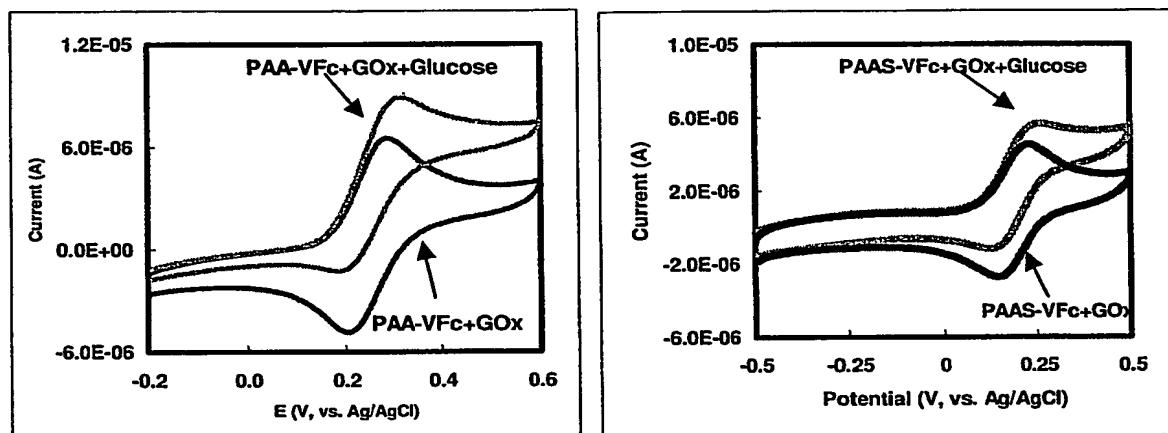


Figure 9. Cyclic voltammograms of redox polymers in various systems.

Phosphate-buffered saline, potential scan rate = 100 mV/s

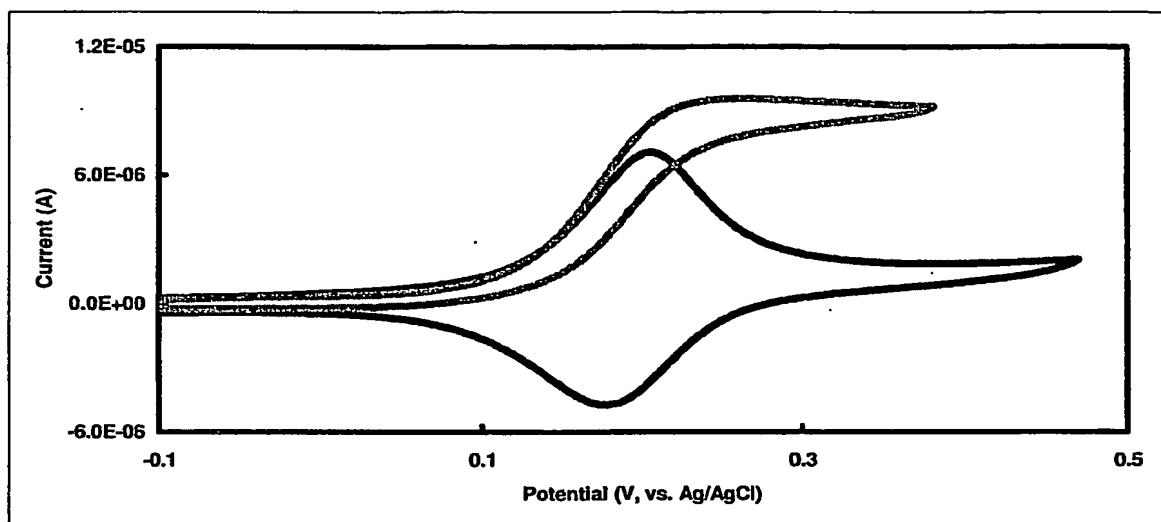


Figure 10. Cyclic voltammogram of cross-linked PAA-VFc-GOx-BSA film on gold electrode.

PBS, potential scan rate 50 mV/s.

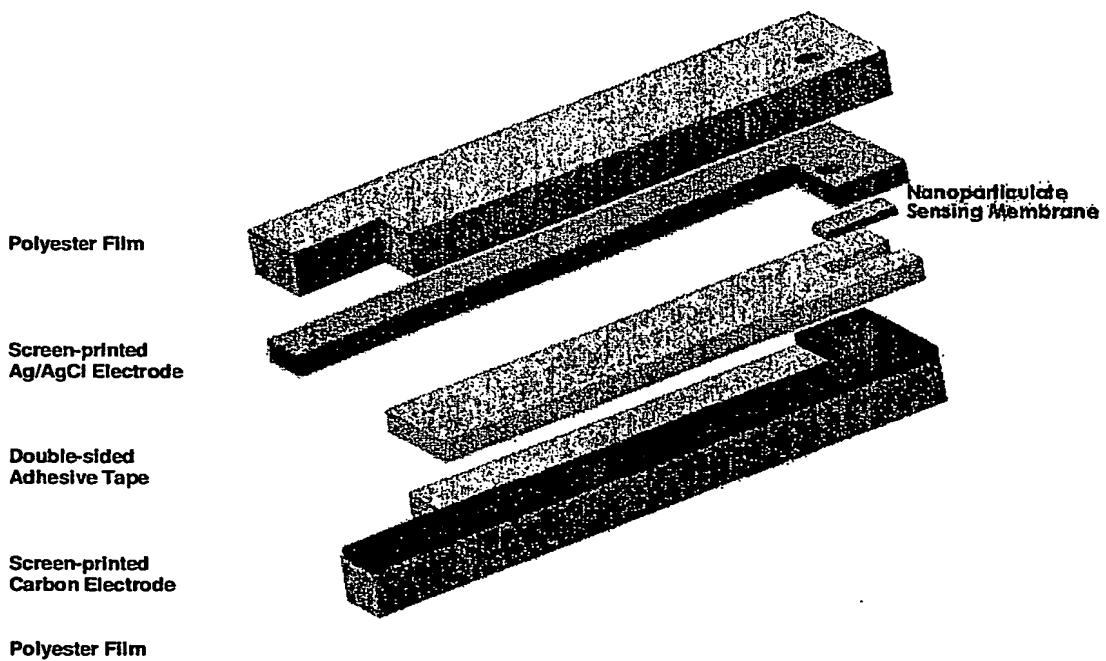


Figure 11

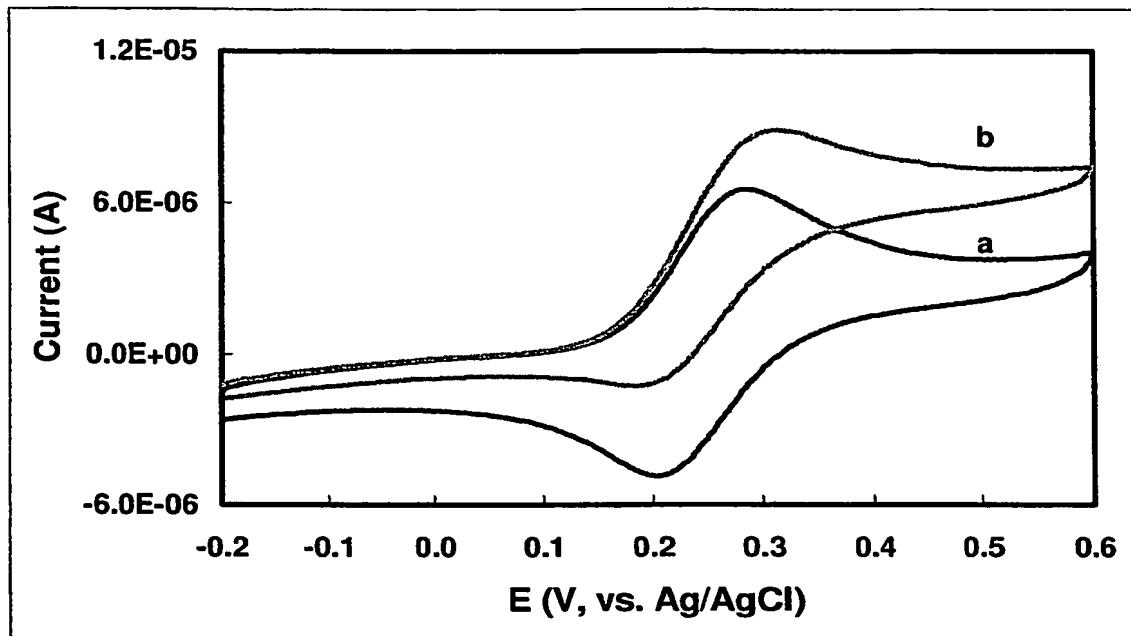


Figure 12

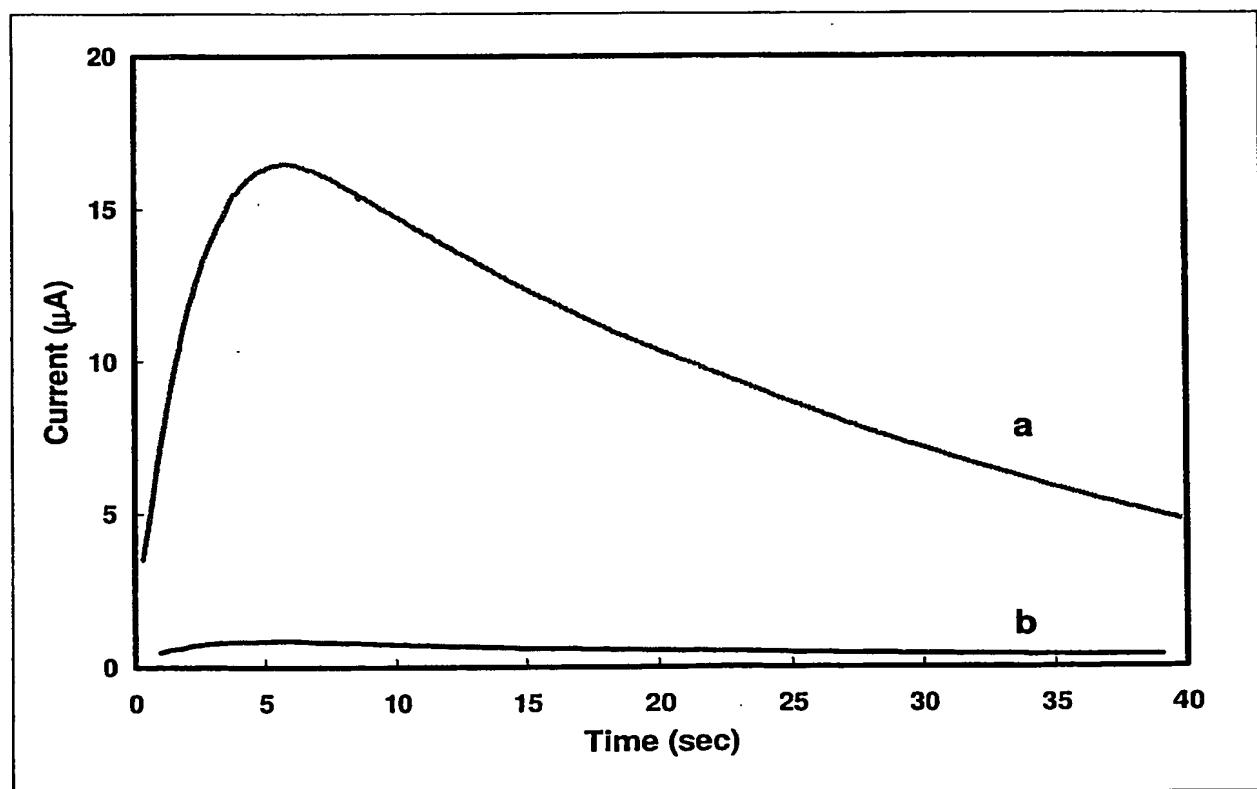


Figure 13

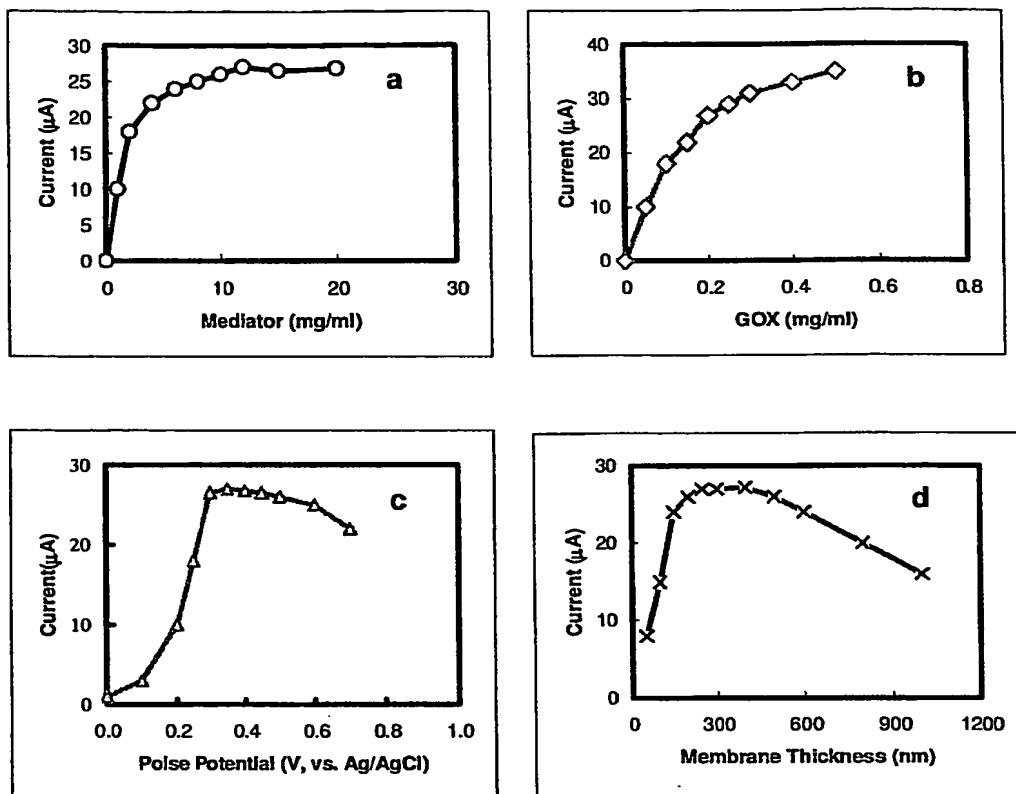


Figure 14

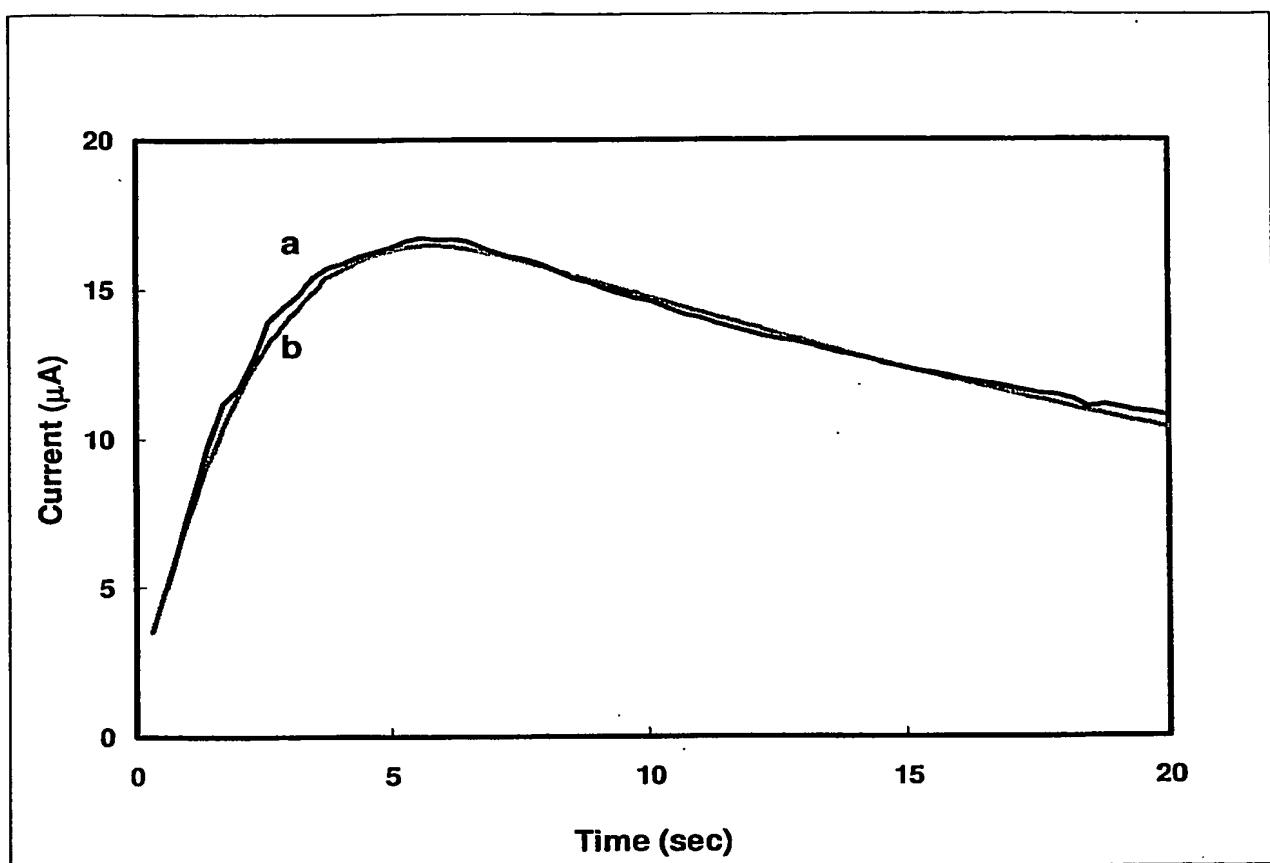


Figure 15

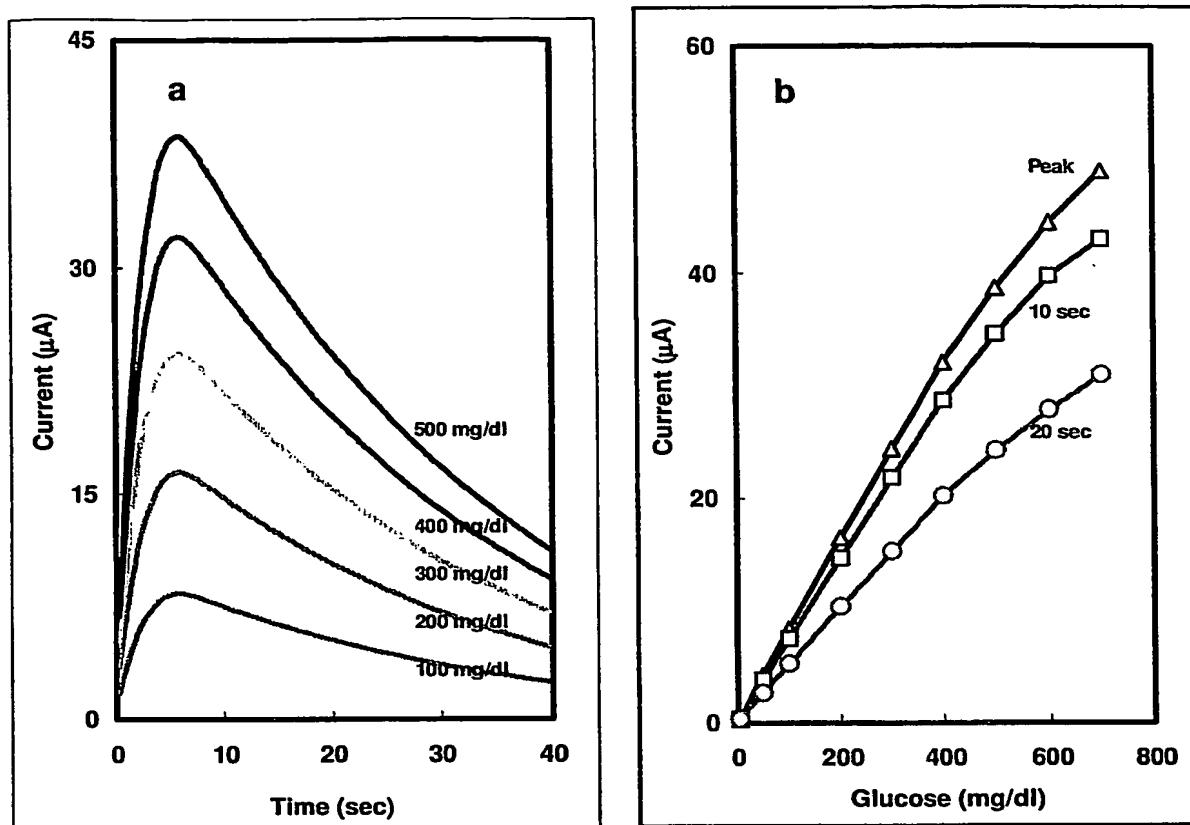


Figure 16

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